

## ABSTRACT OF THE DISCLOSURE

A universal multi-media gateway includes a media processor, a first media access control layer (MAC Layer), a switch device, a second MAC layer, a wireless transmitter and a physical layer. The media processor is used for receiving media signals and is coupled to the first MAC layer and is coupled to the switch device the first MAC layer. The second MAC layer is coupled to the switch device; the wireless transmitter is coupled to the second MAC layer. The physical layer is coupled to the switch device and also coupled to an external Ethernet network.

This universal multi-media gateway can substitute for a wireless LAN access point, a wireless media sharing device and a media server by switching the switch device to different switching statuses.

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